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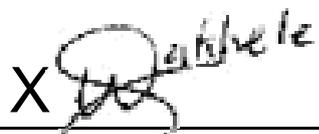
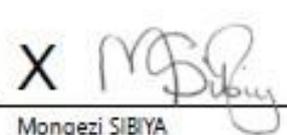
**Table of Modifications**


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Rev	Date	Modifications Content	Writer
A0	27/06/2024	Creation	Kgomotso NKOANA
A1	21/07/2024	Closure of High Speed 120km/h Acceptance Test on the Customer Mainline (DeWildt), Closure of UHF Radio functional test and Wiper function	Kgomotso NKOANA

	Reference:	Rev.:	Summary Report of open items from TS230 Routine and Acceptance Testing	Date:21/07/2024
	GIB0000006609	A1		2/11

Internal Validation

	Name	Function	Date	Signature
Writer	<b>Kgomotso NKOANA</b>	<b>Test Expert</b>	21/07/2024	 X _____ Kgomotso NKOANA Test Expert
Checker	<b>Sifiso LUKHELE</b>	<b>Serial Test Manager</b>	21/07/2024	 X _____ Sifiso LUKHELE Seerial Test Manager
Approver	<b>Mongezi SIBIYA</b>	<b>T&amp;C HoD</b>	21/07/2024	 X _____ Mongezi SIBIYA T&C HoD

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## 1 INTRODUCTION

For the PRASA project Gibela has implemented an exhaustive test program to perform the static routine testing at vehicle and train level including the dynamic routine test schedules. After the handover of each car from production to testing, the train is progressively coupled to formulate a six-car trainset. In parallel to the coupling activities Vehicle Functional Stating Testing is performed individually on the six cars. Static testing is continued to Train Functional Level.

After the static tests have been performed, the Dynamic Test is done on a 1.2 km test track in the Dunnottar Dynamic Test Track to verify all the safety functions of the train up to 60 km/h. The train is then transported to Wolmerton Depot for the final high speed acceptance test and handover to the customer.

## 2 SCOPE

The purpose of this document is to summarize the test results of the different test schedules.

The complete test report for each test schedule including all the test steps with respect to the pass/fail criteria will be submitted.

## 3 TEST CONDITIONS

### Vehicles Tested

TS230is composed of vehicles:

- TC1# 01 20 230 1
- M4 # 01 20 230 2
- M1 # 01 20 230 3
- M2 # 01 20 230 4
- M3 # 01 20 230 5
- TC2 # 01 20 230 6

### Test Schedule

The tests were performed following the Routine Test Schedules

- |   |                      |
|---|----------------------|
| ➤ Vehicle Pre- Testing TC1 (VPT)                | GIB0000001465 rev D2 |
| ➤ Vehicle Pre- Testing TC2 (VPT)                | GIB0000001465 rev D2 |
| ➤ Vehicle Pre- Testing M1 (VPT)                 | GIB0000001465 rev D2 |
| ➤ Vehicle Pre- Testing M2 (VPT)                 | GIB0000001465 rev D2 |
| ➤ Vehicle Pre- Testing M3 (VPT)                 | GIB0000001465 rev D2 |
| ➤ Vehicle Pre- Testing M4 (VPT)                 | GIB0000001465 rev D2 |
| ➤ Vehicle Functional Testing TC1 (VFT)          | GIB0000001462 rev D2 |
| ➤ Vehicle Functional Testing TC2 (VFT)          | GIB0000001463 rev D1 |
| ➤ Vehicle Functional Testing M1 (VFT)           | GIB0000001464 rev D2 |
| ➤ Vehicle Functional Testing M2 (VFT)           | GIB0000001465 rev D2 |
| ➤ Vehicle Functional Testing M3 (VFT)           | GIB0000001466 rev D1 |
| ➤ Vehicle Functional Testing M4 (VFT)           | GIB0000001467 rev D1 |
| ➤ Train Functional Routine Static Testing (TFS) | GIB0000001241 rev D0 |
| ➤ Train Functional Dynamic Testing (TFD)        | GIB0000001029 rev D2 |
| ➤ Acceptance Test on Customer Track (ACT)       | GIB0000000293 rev D3 |

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### General test conditions

No specific ambient conditions were mandatory during testing.

### Static and Dynamic Test location

The tests were conducted at the Gibela Dunnottar factory in South Africa

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## Test participants

Last Name	First Name	Company	Occupation
MABUNDA	Neliswa	Gibela	EPU Manager
LUKHELE	Sifiso	Gibela	Serial Test Manager
NKOANA	Kgomotso	Gibela	Test Expert
NGUBANE	Lindani	Gibela	EPU Manager
MOCWAGOLE	Kealeboga	Gibela	EPU Manager
MERAPE	Mavis	Gibela	EPU Manager
ZULU	Vusumuzi	Gibela	EPU Manager
MAKOLA	Hilda	Gibela	Test Technician
ZULU	Nokukhanya	Gibela	Test Technician
XULU	Sithembile	Gibela	Test Technician
MATSHAVA	Junior	Gibela	Test Technician
SHINGA	Sthabile	Gibela	Test Technician
MABUNDZANE	Nick	Gibela	Test Technician
GUMEDE	Carol	Gibela	Test Technician
MTHEMBU	Mvelo	Gibela	Test Technician
MILANI	Philemon	Gibela	Test Technician
KHOSA	Tshembhani	Gibela	Test Technician
TSELA	Impi	Gibela	Test Technician
MAKAYA	Linda	Gibela	Test Technician
FUNYUFUNYU	Mbavhalelo	Gibela	Test Technician
CHIRWA	NQOBILE	Gibela	Test Technician
SIBANYONI	Sizwe	Gibela	Test Technician
MAKHANYA	Thandanani	Gibela	Test Technician
SEKGOLOLO	Alleta	Gibela	Test Technician
MKHONTO	Simphiwe	Gibela	Test Technician
MASONDO	Nhlakanipho	Gibela	Test Technician
MLABA	Vuma	Gibela	Test Technician
SIGUDLA	Walter	Gibela	Test Technician

## Routine test Period

The routine test was performed from the 20<sup>th</sup> of June 2024 until the 27<sup>th</sup> of June 2024 in Dunnottar.

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### Acceptance Test location

High-Speed Acceptance Test on the Customer Main Line (De-Wildt),The dynamic performance to be validated to a maximum speed of 60km/h inclusive, ensuring compliance to service, emergency and degraded mode braking performance.

### Acceptance Test participants

Last Name	First Name	Company	Position
MATSHAVAU	Junior	GIBELA	Test Engineer
VEZI	Khehla	PRASA	Quality Technician

### Acceptance Test period

The routine High-speed test was performed on the 12<sup>th</sup> July 2024 in Wolmerton, Customer Main Line (De-Wildt).

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## 4 TEST RESULTS

### Vehicle Pre-Testing

RTR Vehicle Pre-Testing TS230 TC1 Report GIB0000006604 rev A0  
 RTR Vehicle Pre-Testing TS230 TC2 Report GIB0000006605 rev A0  
 RTR Vehicle Pre-Testing TS230 M1 Report GIB0000006600 rev A0  
 RTR Vehicle Pre-Testing TS230 M2 Report GIB0000006601 rev A0  
 RTR Vehicle Pre-Testing TS230 M3 Report GIB0000006602 rev A0  
 RTR Vehicle Pre-Testing TS230 M4 Report GIB0000006603 rev A0  
 All test steps were performed and passed successfully

### Vehicle Functional Testing

RTR Vehicle Functional Static Testing TS230 TC1 Report GIB0000006598 rev A0  
 RTR Vehicle Functional Static Testing TS230 TC2 Report GIB0000006599 rev A0  
 RTR Vehicle Functional Static Testing TS230 M1 Report GIB0000006594 rev A0  
 RTR Vehicle Functional Static Testing TS230 M2 Report GIB0000006595 rev A0  
 RTR Vehicle Functional Static Testing TS230 M3 Report GIB0000006596 rev A0  
 RTR Vehicle Functional Static Testing TS230 M4 Report GIB0000006597 rev A0  
 All test steps were performed and passed successfully

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### Train Functional Static Testing

RTR Train Functional Static Testing TS230 Report GIB0000006606 rev A0

All test steps were performed and passed successfully with an exception of Train ground communication, the confirmation of train connectivity to Train tracer CFM. The Netbox sim card is not issued.

### Train Functional Dynamic Testing

RTR Train Functional Dynamic Testing TS230 Report GIB0000006607 rev A0

All test steps were performed and passed successfully

### Acceptance Test on Customer Track

RTR TS230 Acceptance Test on Customer Track test report GIB0000006608 rev A0

All routine (works) tests have been performed and completed successfully.

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## 5 CONCLUSION AND RECOMMENDATION

All routine (works) tests have been performed and completed successfully except for

1. GSMR – Not commissioned due to damaged PRASA infrastructure.

The Acceptance Test on customer track that covers the high speed 120km/h and UHF radio functional tests have been performed in Wolmerton.

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